IN THE CLAIMS

1. (Currently amended) A method for filling a hole with a metaleomprising metal comprising:

successively forming an insulating layer, a first mask layer, and a second mask layer on a semiconductor substrate;

etching the first and the second mask layers to <u>respectively form</u>[[a]] first and[[a]] second masks, each of the first and second masks having a first opening that has a first width;

selectively etching the first mask to form a third mask having a second opening that has a second width that is greater than the first width;

etching the insulating layer using the second mask to form a hole having the first width thereby exposing a conductive material at a bottom of the hole;

forming a metal layer on the insulating layer to fill the hole and the second opening with the metal layer; and

removing the third mask and the metal layer to expose an upper surface of the insulating layer.

- 2. (Original) The method of claim 1, wherein forming the third mask includes etching the first mask using an etchant, the first mask having a higher etching selectivity than the second mask with respect to the etchant.
- 3. (Original) The method of claim 1, wherein forming the first mask layer comprises forming the first mask layer to a thickness of about 150 nm to about 250 nm.
- 4. (Original) The method of claim 1, wherein forming the first mask layer comprises forming a layer selected from the group consisting of a fluorine-doped oxide layer, a carbon-doped oxide layer, a silicon-based oxide layer, a hydrogen silsesquioxane (HSQ) layer, a flowable oxide layer, a methylsilsesquioxane based material (LKD) layer, and wherein forming the second mask layer comprises forming a layer selected from the group consisting of a SiON layer, a SiC-based material layer, a Si-based material layer, and a Si-based nitride material layer.
- 5. (Original) The method of claim 1, further comprising removing the second mask forming the metal prior to layer.

- 6. (Original) The method of claim 1, wherein forming the metal layer comprises forming the metal layer by an electroplating process.
- 7. (Original) The method of claim 1, wherein removing the third mask layer and the metal layer comprises using a process chosen from the group consisting of a chemical mechanical polishing (CMP) process and an etch-back process.
- 8. (Currently amended) A method for filling a hole with a-metalcomprising metal comprising:

successively forming an insulating layer and a first mask layer on a semiconductor substrate;

etching the first mask layer to form a first mask having a first opening that has a first width;

etching the insulating layer using the first mask to form a hole having the first width; etching the first mask to form a second mask having a second opening that has a second width that is greater than the first width;

forming a metal layer on the insulating layer to fill the hole and the second opening; and

removing the third mask second mask and the metal layer to expose an upper surface of the insulating layer.

- 9. (Original) The method of claim 8, wherein forming the first mask layer comprises forming the first mask layer to a thickness of about 150 nm to about 250 nm.
- 10. (Original) The method of claim 8, wherein forming the first mask layer comprises forming a layer chosen from the group consisting of a fluorine-doped oxide layer, a carbon-doped oxide layer, a silicon-based oxide layer, a hydrogen silsesquioxane (HSQ) layer, a flowable oxide layer, and a methylsilsesquioxane based material (LKD) layer, and forming the second mask layer comprises forming a layer chosen from the group consisting of a SiON layer, a SiC-based material layer, a Si-based material layer, and a Si-based nitride material layer.
- 11. (Original) The method of claim 8, wherein forming the metal layer comprises forming the metal layer by an electroplating process.

- 12. (Original) The method of claim 8, wherein removing the second mask and the metal layer comprises using a process chosen from the group consisting of a chemical mechanical polishing (CMP) process and an etch-back process.
 - 13. (Currently amended) A method for filling a hole with a metal comprising: forming an insulating layer on a semiconductor substrate; successively forming first and second mask layers on the insulating layer; forming a photoresist pattern on the second mask layer;

etching the first and second mask layers using the photoresist pattern as a mask to form a first mask having a first opening that has a first width and a second mask having a second opening that has the first width;

etching the first mask using an etchant, the first mask having a higher etching selectivity with respect to the etchant than the second mask, to form a third mask having a third opening that has a second width that is greater than the first width;

etching the insulating layer using the second mask to form a hole having the first width;

forming a metal layer on the insulating layer to fill the hole and the third-opening with the metal layer; opening; and

removing the third mask and the metal layer to expose an upper surface of the insulating layer.

- 14. (Original) The method of claim 13, wherein forming the first mask layer forming a layer selected from the group consisting of a fluorine-doped oxide layer, a carbon-doped oxide layer, a silicon-based oxide layer, a hydrogen silsesquioxane (HSQ) layer, a flowable oxide layer, and a methylsilsesquioxane based material (LKD) layer, and forming the second mask layer comprises forming a layer selected from the group consisting of a SiON layer, a SiC-based material layer, a Si-based material layer, and a Si-based nitride material layer.
- 15. (Original) The method of claim 13, wherein the etchant comprises a solution selected from the group consisting of a fluorine solution, an ammonia solution, a hydrogen fluoride solution, and an alkaline ammonia solution.

- 16. (Original) The method of claim 13, wherein forming the metal layer comprises forming a copper layer with an electroplating process.
- 17. (Original) The method of claim 16, wherein forming the copper layer with the electroplating process comprises electroplating with an electrolyte solution that includes about 10 g/liter to about 30 g/liter of copper, about 100 g/liter to about 300 g/liter of H2SO4, about 40 ppm to about 120 ppm of chlorine, about 15 ml/liter to about 45 ml/liter of an accelerator, and about 1 ml/liter to about 4 ml/liter of a suppressor.
- 18. (Original) The method of claim 13, wherein removing the third mask and the metal layer comprises using a process selected from the group consisting of a chemical mechanical polishing (CMP) process and an etch-back process.
- 19. (Currently amended) The method of claim 13, further comprising removing the second mask prior to forming the hole metal layer.
- 20. (Currently amended) A method for filling a hole with a metaleomprising metal comprising:

successively forming an insulating layer and a mask layer on a semiconductor substrate;

forming a first photoresist pattern on the mask layer;

etching the insulating layer and the mask layer using the first photoresist-patternas

pattern as a mask to simultaneously form an insulating layer pattern having a hole that has a

first width and a first mask having a first opening that has the first width;

forming a second photoresist pattern having a pattern width greater than the first width on the first mask;

etching the first maskusing mask using the second photoresist pattern as a mask for exposing an upper surface of the insulating layer pattern to form a second mask having a second opening that has a second width greater than the first width;

forming a metal layer on the insulating layer to fill the hole and the second opening; and

removing the second mask and the metal layer to expose an upper surface of the insulating layer.

- 21. (New) The method of claim 1, wherein the metal layer is electrically coupled to a source or drain region, a word line, or a bit line.
- 22. (New) The method of claim 8, wherein a bottom portion of the metal layer is physically coupled to a source or drain region, a word line, or a bit line.